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RCA M29500 USER MANUAL

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M29500

USER'S GUIDE

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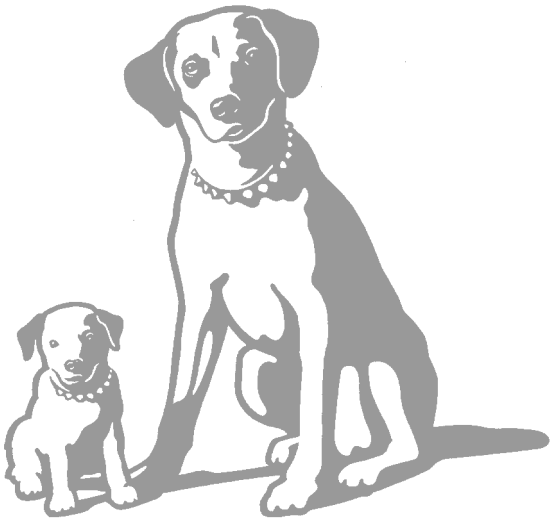
It is important to read this manual before operating this unit for the first time.



RCA

COLOR TV

Important Information

WARNING

To reduce the risk of fire or shock hazard, do not expose this TV to rain or moisture.

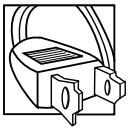
WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.



To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Cautions

Do not defeat the safety feature of the plug. The wide blade fits into the wall socket only one way. If you need an extension cord, make sure it matches the plug of the TV.

In Mexico: Operate TV only on 127 volts, 60 Hz AC power (normal house power) .

In U.S.A.: Operate TV only on 120 volts, 60 Hz AC power (normal house power) .

For safety reasons, make sure any equipment or accessories connected to this product bears the UL listing mark or the CSA certification mark. If in doubt, contact qualified service personnel.

FCC Regulations state that unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Note To Cable TV Installer

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

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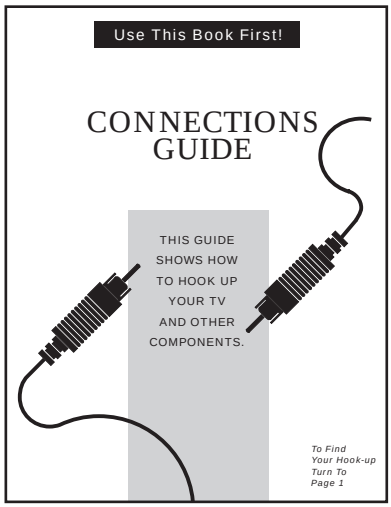
Quick Guide to Your TV

Startup

The steps below will get your TV connected and ready for watching.
For more details, see the page numbers listed.

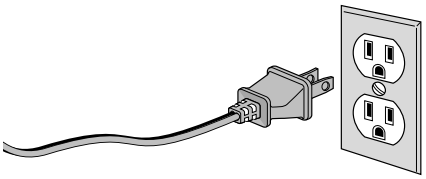
1. Hook up your TV

Details are in the Connections Guide.


Use This Book First!
CONNECTIONS GUIDE
THIS GUIDE SHOWS HOW TO HOOK UP YOUR TV AND OTHER COMPONENTS.
To Find Your Hook-up Turn To Page 1

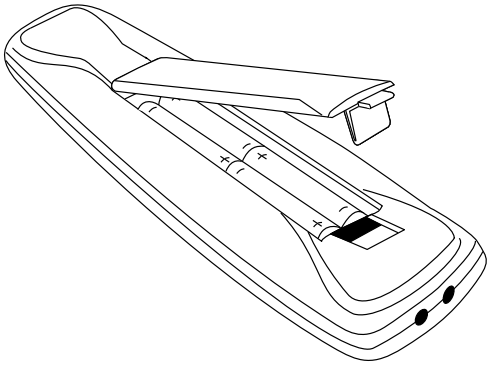
Hook up any antennas, cables or other equipment to your TV before you follow the steps below.

2. Plug in the TV



Plug the cord into the outlet, matching the wide and the small end of the plug with the outlet.

3. Put Batteries in the Remote



A. Pull off the cover of the battery compartment.

B. Place the four AAA batteries as shown, matching the + and – end of each battery in the compartment.

C. Replace the cover.

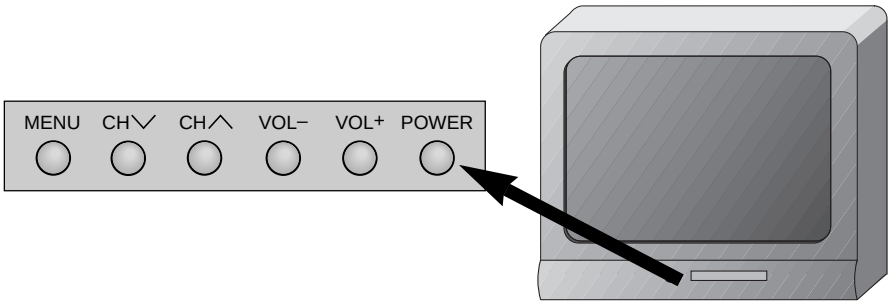
Quick Guide to Your TV

Startup

4. Turn on the TV

Press TV on the remote.

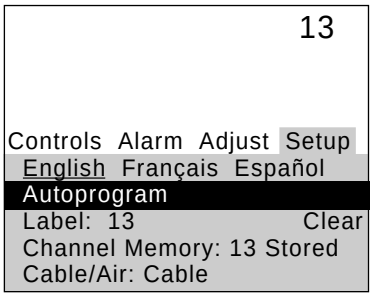
OR



Press POWER on the TV.

5. Place all available channels in memory (AutoProgram)

Details for adding and deleting channels are on page 20.



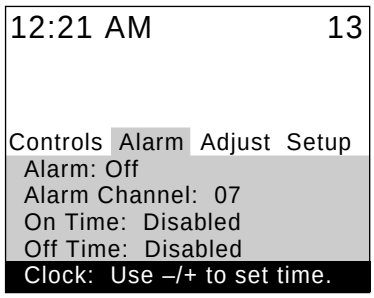
A. Press MENU•PROG until the Setup menu is selected. This menu is white.

B. Press MOVE H to highlight Autoprogram.

C. Press MOVE E to start placing channels in the TV's memory.

D. Wait until TV has cycled through all the channels and returns to original channel.

6. Set the Time



A. Press MENU•PROG until the Alarm menu is selected. This menu is green.

B. The Clock is automatically highlighted the first time you set it. If it is not, press MOVE H (down) to highlight it.

C. Press MOVE F to set the hour.

D. Press MOVE E to set the minutes.

Quick Guide to Your TV

Basic Tour of the Remote

Basic information about your remote is shown below. This will give you a general idea of how your remote works. *For more details, see pages 6–15.*

TV Power Button

Turns the TV on.

Sets the remote to control the TV.

Volume and Channel Controls
Details are on page 6.

Operates TV when remote is set to control the TV.

Operates the TV and advanced features.

Component Buttons
Details are on pages 8–15.

Controls components such as a VCR, laserdisc player, audio equipment, and a cable box.

Menu Buttons
See next page for details.

Changes the menus and features on the screen.

Picture-in-picture buttons
Details are on pages 7 and 24–25.

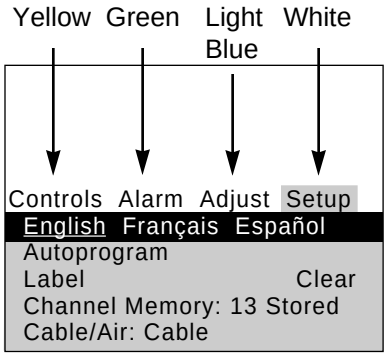
Used to watch two pictures on the TV at the same time.

Quick Guide to Your TV

Menu Basics

General information about using the on-screen menu system is shown below. *Details on using the remote buttons are on pages 6-7. Many menu items are explained in detail in Using the Advanced Features starting on page 20.*

Colors

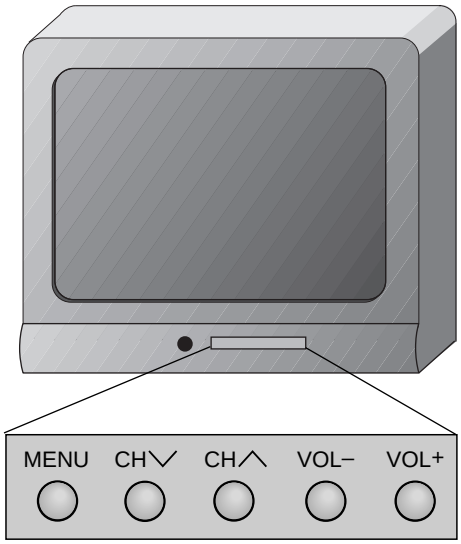


Press MENU•PROG repeatedly to see each of the four menu colors.

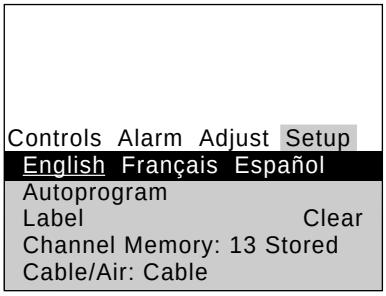
Each menu has a different color background as shown at the left.

Menu Buttons

These buttons are used with the TV's menus to adjust the features. You can use the menu buttons on the remote or the front of the TV.



Moving through the Menus



1. Press MENU•PROG on the remote or MENU on the front panel to move from menu to menu.
2. Press MOVE 4/3 on the remote or CHANNEL up / down on the front panel to move up and down through the features in the menu.
3. Press MOVE **F** and **E** on the remote or VOLUME +/– on the front panel to move left and right on the menu lines.

Using Your TV and Remote

With Remote Buttons

POWER
Turns off the TV.

Turns off compatible VCRs.

Turns on a component after a component button is pressed.

AUDIO, VCR, VCR2•LD, DSS•CABLE, TV
Sets the remote to control the component. VCR2•LD can only be programmed for one component: either a VCR or a Laserdisc Player.

See Using the Remote with a VCR, Cable Box, Laserdisc Player and Audio equipment on pages 8–15.

TV
Turns on the TV.

Shows the displays on the screen.

Sets the remote to control the TV.

See Using the Remote with a VCR, Cable Box, Laserdisc Player and Audio equipment on pages 8–15.

REW (Rewind)
Rewinds a tape or laserdisc.

Searches backward while tape or laserdisc is playing.

PLAY
Plays tape or laserdisc.

FF (Fast Forward)
Fast forwards a tape or laserdisc.

Searches forward while tape or laserdisc is playing.

REC (Record)
Starts recording onto tape.

STOP
Stops tape or laserdisc.

PAUSE
Pauses tape or laserdisc.

DISPLAY
Shows displays on the screen.

Clears menus from the screen.

SKIP (Commercial Skip)
Allows you to scan other channels during commercials.

Each press adds 30 seconds. TV switches back to original channel when time runs out. Press CLEAR to cancel SKIP.

CHAN 2 and 1
(Channel up and down)
Scans up and down through channels in the TV's memory.

Moves through channels in VCR's memory.

VOL + and –
(Volume up and down)
Raises and lowers sound.

MUTE
Switches the TV sound on or off.

PREV CH (Previous Channel)
Changes back and forth between two channels.

Select a channel and then select another. Press PREV CH to switch between the two channels.

Using Your TV and Remote

With Remote Buttons

Number Buttons (0-9)
Selects any channel number.

Two numbers must be pressed for each channel. Press 0 and 6 for channel 6. For three digit channels, press and hold 1 until 1-- appears on the screen. Then press the other two numbers.

INPUT
Switches between the TV channels and Video 00.

ANT A•B (Antenna)
Used as TV / VCR button when remote is set to control the VCR.

CLEAR
Clears menus and displays from the screen.

Clears items from VCR timer programs and VCR's clock.

MENU•PROG (Program)
Shows menus on the screen and moves from menu to menu.

Sets VCR clock and programs timer on VCR.

RESET
Returns the picture adjustments to the original settings.

MOVE F and E (left and right)
Moves left and right on a menu line. *See Menu Basics on page 5.*

Changes a feature setting.

MOVE G and H (up and down)
Moves up and down menus. *See Menu Basics on page 5.*

PIP (Picture-in-Picture)
Turns the small picture on or off.

PIP MOVE
Moves the small picture to the next corner.

SWAP
Switches the channel in the small picture with the big picture.

FREEZE
Freezes or unfreezes the small picture.

Using Your TV and Remote

With VCRs: Programming the Remote

Refer to the Connection Book or the VCR's owners manual to hook up your VCRs. The remote may need to be programmed for your VCR. This remote may not operate all models of brands listed below. *Use the codes below or on the sheet packed in with your remote.*

1. Test the remote

A. Press VCR or VCR2 to turn the VCR on.

B. Press the VCR buttons shown at the left. If your VCR does not work, program VCR or VCR2 with a VCR code from the list below.

2. Program the remote for your VCRs

A. Point the remote at the VCR and hold VCR.

B. Enter the code for your brand from the code list below.

C. Release VCR.

D. Press POWER. If nothing happens, try pressing VCR and then POWER.

E. Repeat A–D with another code if the first one does not work or if a second VCR is connected.

VCR Codes

Aiwa 15
Akai 03,22,23
Audio Dynamics.....14,16
Broksonic 10
Canon 08
Capehart.....01
Citizen 09
Craig 07,12
Curtis Mathes.....00,08,15
Daewoo 13
dbx 14,16
Dimensia 00
Dynatech 15
Emerson ...09,10,13,15,20,23,24,34,41
Fisher 02,12,18,19,43
Funai.....15
GE 00,07,08,32,37
Goldstar.....09,14
Harman Kardon.....14
Hitachi.....05,15,35,36
Instant Replay 08
JCL 08
JCPenney.....02,05,07,08,14,16,30,35
JVC.....02,14,16,30
Kenwood.....02,14,16,30
Lloyd 15
Magnavox 08,29
Marantz 02,08,14,16,29,30
Marta 09
MEI 08
Memorex 08,09,12,15
MGA 04,27
Minolta 05,35
Mitsubishi 04,05,27,35,40
Montgomery Ward.....06
MTC.....07,15
Multitech.....07,15,31,32
NEC 02,14,16,30
Panasonic 08
Pentax.....05,35
Philco.....08,29
Philips.....08,29
Pioneer 05,16,33
ProScan.....00
Quartz.....02
Quasar 08
RCA 00,05,07,08,28,35,37
Realistic 02,06,08,09,12,15,19,43
Samsung.....07,13,22,32,42
Sansui 16
Sanyo.....02,12
Scott.....04,13,41
Sears 02,05,09,12,18,19,35,43
Sharp 06,24,39
Shintom 17,26,31
Sony.....17,26,38
Sylvania 08,15,29
Symphonic 02,15
Tashiko 09
Tatung.....30
Teac 15,30
Technics.....08
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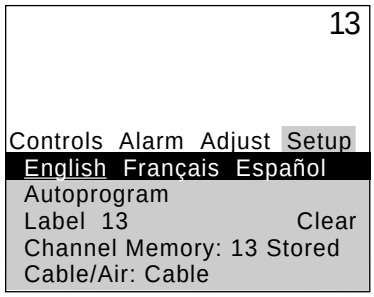
Toshiba 05,13,19
Totevision.....07,09
Unitech 07
Vector Research.....14,16
Victor 16
Video Concepts 14,16
Videosonic.....07
Wards.....
.....05,06,07,08,12,13,15,25,31,35
Yamaha.....02,14,16,30
Zenith.....11,17

Using Your TV and Remote

With VCRs: Setting the VCR1 Channel

The VCR 1 Channel works with VCR on the remote. If the VCR 1 Channel is set, pressing VCR selects the channel to see the VCR picture. The VCR 1 Channel setting depends on which diagram you have used from the Connection Guide. If you want to turn this feature off, set the VCR 1 Channel to Disable. *Refer to the chart below for your setting.*

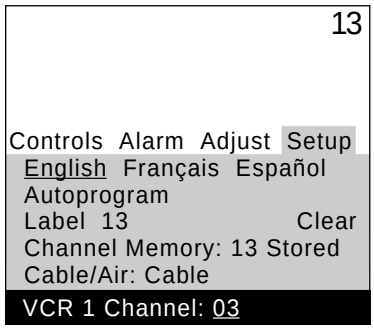
1. Select the Setup Menu



A. Press TV to set the remote to control the TV.

B. Press MENU•PROG to select the Setup menu. This menu is white.

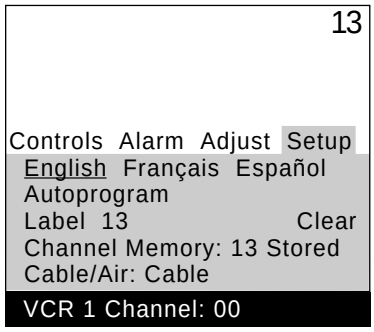
2. Highlight VCR1 Channel



A. Press MOVE H (down) to highlight the VCR 1 Channel.

B. Press **E** to highlight the channel.

3. Enter channel number



A. Enter channel 00, 03, or 04. Choose your setting from the chart below. Press MOVE H (down) until "Disabled" is displayed to turn the feature off.

Diagram used from the Connection Guide:	Set VCR1 Channel to:
1B, 1C, 2B, 2C, 3B, 3C, 4C, 5C	00
4B, 5B	3 or 4 (same as 3/4 switch)

Using Your TV and Remote

With VCRs: Basic Operation

If the remote operates your VCR, this page and the next will show you how to use it for basic functions. *See page 7 for more details on buttons used with your VCR.*

Turn on the VCR

A. Press channel 00 on the TV to see what the VCR is doing.

B. Press VCR or VCR2 to set the remote to control the VCR.

C. Press POWER to turn on the VCR if it did not turn on when you pressed VCR or VCR2.

Turn off the VCR

A. Press VCR or VCR2 to set the remote to control the VCR.

B. Press POWER.

Using Your TV and Remote

With VCRs: Basic Operation

If the remote operates your VCR, this page and page 10 will show you how to use it for basic functions. *See page 7 for more details on buttons used with your VCR.*

Record one TV program and watch another

A. Press VCR or VCR2 to set the remote to control the VCR.

B. Tune the VCR to the channel you want to record using CHANNEL up and down or pressing two number buttons.

C. Press RECORD to start recording.

D. Press TV/VCR on the VCR.

E. Press TV to set the remote to control the TV.

F. Press CHANNEL up or down to change channels on the TV.

G. To see the channel you are recording, tune the TV back to channel 00.

Watch a tape in your VCR

A. Turn on VCR.

B. Insert a tape in the VCR.

C. Press PLAY to start the tape playing.

D. Press STOP when you are finished.

E. Press REW to rewind the tape.

Using Your TV and Remote

With a Cable Box: Programming and Basic Operation

Refer to the Connection Book or contact your cable company to hook up your cable box. If you have a cable box with its own remote, then you may also be able to use the TV's remote with your cable box. This remote may not operate all models of the brands listed below. *Use the codes below or on the sheet packed in with your remote.*

Program the remote for your cable box

A. Point the remote at the cable box and hold CABLE.

B. Enter the code numbers for your brand from the list below.

C. Release CABLE.

D. Press POWER to turn it on. If nothing happens, try pressing CABLE and then POWER.

E. Repeat A-D with another code if the first one does not work.

Basic Operation:

Turn on the Cable Box

A. Tune TV to channel 02, 03, 04, 05, or 06--the cable box channel.

B. Point remote at the cable box and press CABLE.

C. Press POWER to turn it on.

D. Press CHANNEL up or down to change channels on the cable box.

Turn off the Cable Box

A. Press CABLE.

B. Press POWER to turn it off.

Cable Box Codes

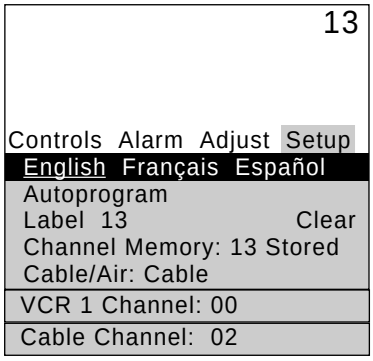
ABC 22,46
Anvision.....07,08
Cablestar.....07,08
Eagle.....08
Eastern International.....02
General Instrument.....
.....04,05,15,23,24,25,30,36,46
Hamlin 12,13,34,48
Hitachi.....37,43,46
Jerrold.....
.....04,05,15,23,24,25,30,36,45,46,47
MACOM 37,43
Magnavox.....
.....07,08,19,21,26,28,29,32,33,40,41
NSC 09
Oak 01,16,38
Oak Sigma 16
Panasonic.....03,27,39
Philips .....
.....07,08,19,21,26,28,29,32,33,40,41
Pioneer 18,20,44
Randtek.....07,08
RCA 00,27
Regal.....12,13
Regency.....02,33
Samsung 44
Scientific Atlanta.....03,22,35
Signature.....46
Sprucer.....27
Starcom 46
Sylvania.....11
Teknika 06
Texscan.....10,11
Tocom.....17,21,49,50
Unika.....31,32,41
Viewstar.....
.....07,08,19,21,26,28,29,32,33,40,41
Warner Amex.....44
Zenith 14,42

Using Your TV and Remote

With a Cable Box: Setting the Cable Channel

The Cable Channel works with CABLE on the remote. If the Cable Channel is set, pressing CABLE selects the channel to see cable channels. The Cable Channel setting depends on which channel your cable box must be on to see cable channels. The channels usually used are 02, 03, 04, 05 or 06. *Consult your cable company for more information.*

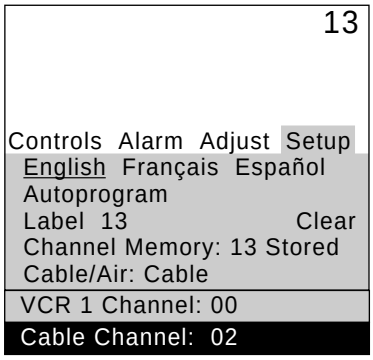
1. Select the Setup menu



A. Press TV to set the remote to control the TV.

B. Press MENU•PROG to select the Setup menu. This menu is white.

2. Highlight Cable Channel



A. Press MOVE H (down) to move down the menu until Cable Channel is highlighted.

B. Press **E** to underline the channel.

3. Enter channel number

A. Enter the number for your cable box, either 02,03,04,05, or 06. Press MOVE H (down) until "Disabled" is displayed to turn this feature off.

Using Your TV and Remote

With a Laserdisc Player: Programming and Basic Operation

Refer to your Laserdisc Player owner's manual to hook up your Laserdisc Player. The remote may need to be programmed for your laserdisc player. This remote may not operate all models of brands listed below. *Use the codes below or on the sheet packed in with your remote.*

Program the remote for your Laserdisc Player

A. Point the remote at the laserdisc player and hold LD.

B. Enter the code for your brand from the code list below.

C. Release LD.

D. Press POWER. If nothing happens, try pressing LD and then POWER.

Basic Operation

A. Tune TV to channel 00, 03, or 04.

B. Point the remote at the laserdisc player and press LD.

C. Press POWER to turn it on.

D. Use the buttons on the remote that relate to laserdisc player functions. Not all buttons highlighted may work with your laserdisc player.

E. Press POWER to turn it off.

Laserdisc Player Codes

Pioneer	33
ProScan	33
RCA	33

Using Your TV and Remote

With Audio Equipment: Programming and Basic Operation

Refer to the Connection Book or your Audio equipment owner's manual to hook up your audio equipment. Your remote controls only RCA audio equipment such as a radio, CD player, tape player, turntable, or amplifier. The remote may need to be programmed for your equipment. This remote may not operate all models of brands listed below. *Use the codes below or on the sheet packed in with your remote.*

Program the remote for audio equipment

A. Point the remote at the audio equipment and hold AUDIO.

B. Enter the code from the code list.

C. Release AUDIO.

D. Press POWER to turn it on. If nothing happens, try pressing AUDIO and then POWER.

E. Repeat A–D with another code if the first one does not work.

Basic Operation

A. Point the remote at the audio equipment and press AUDIO.

B. Press POWER to turn it on.

C. Use the buttons on the remote that relate to audio functions. Not all buttons highlighted may work with your equipment.

D. Turn the audio equipment off using the audio component's power off button.

Audio Codes

RCA / Dimensia

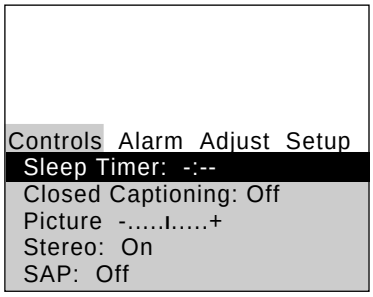
AM / FM.....03
CD.....07
Tape.....06
Phono.....05
Aux.....04

Adjusting Your TV

Overall Picture

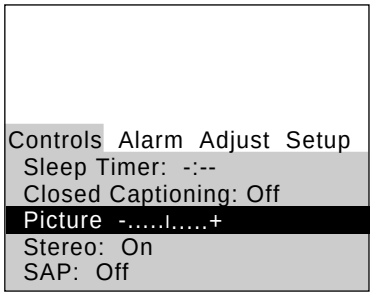
Follow the steps below to lighten or darken the overall picture without changing the color levels.

1. Select the Controls Menu



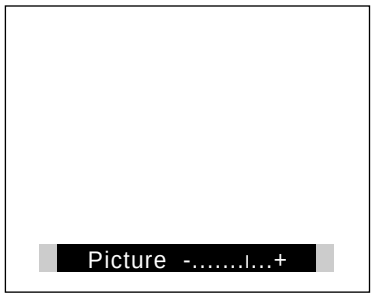
Press MENU•PROG to select the Controls menu. This menu is yellow.

2. Highlight Picture



Press MOVE H (down) to highlight Picture.

3. Use MOVE E and F to adjust the Picture



Press MOVE E (right) to lighten the picture.

OR

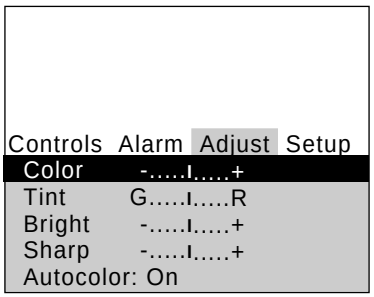
Press MOVE F (left) to darken the picture.

Adjusting Your TV

Picture Settings

Follow the steps below to change the picture on the screen to your personal setting. The chart at the bottom of the page explains your options.

1. Select the Adjust Menu

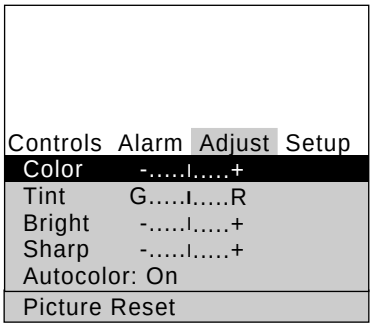


Press MENU•PROG repeatedly to select the Adjust menu. This menu is light blue.

2. Highlight item to change

Press MOVE H (down) to highlight the picture item you want to adjust.

3. Use MOVE E or F to adjust each item



Press MOVE **E** or **F** to adjust each item.

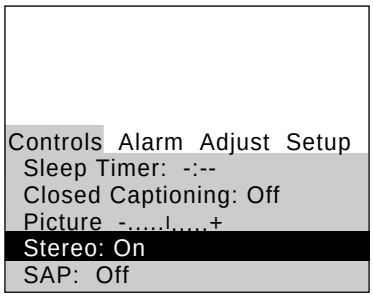
	Press MOVE E to:	**Press MOVE F to:**
Color	Increase color richness	Lower color to black and white
Tint	Give red tint to skin color	Give green tint to skin color
Bright (Brightness)	Add more light to dark parts of the picture	Add more dark to light parts of the picture
Sharp (Sharpness)	Show cleaner, clearer images	Make picture more smooth
Autocolor	Turn on to keep Color and Tint in proper balance each time you change channels	Turn off for manual adjustment of Color and Tint
Picture Reset	Reset the picture back to the original settings	Reset the picture back to the original settings

Adjusting Your TV

Sound Settings: Stereo, Expanded Stereo, SAP and Tone

Follow these steps to adjust the Stereo, Expanded Stereo, SAP or Tone of your TV. SAP (Second Audio Program) is sometimes used to offer the program being watched in another language.The chart below explains your options.

1. Select the Controls Menu

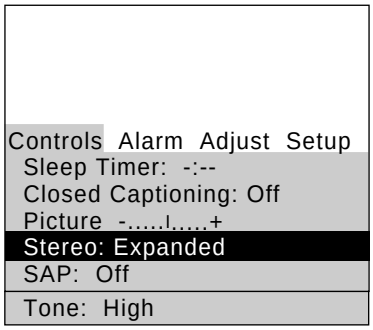


Press MENU•PROG to select the Controls menu. This menu is yellow.

2. Highlight item to change

Press MOVE H (down) to highlight the sound item you want to adjust.

3. Use MOVE E or F to adjust each item



Press MOVE E or F to adjust each item.

Stereo	**On** Sound is automatically reproduced in stereo or mono, whichever the TV station is broadcasting.	**Off** Sound is reproduced in mono.	**Expanded** Expanded stereo adds greater width and dimension to stereo broadcasts creating a more spacious stereo sound effect.
SAP	**On** Sound is reproduced in another sound channel. If nothing happens, your broadcast may not have SAP.	**Off** Sound is reproduced in Stereo, Expanded Stereo or Mono, whichever is selected in the Stereo Menu Item.	
Tone	**High** High pitched sounds are louder.	**Low** Low pitched sounds are louder.	

Adjusting Your TV

Sound Settings: Speakers

Follow the steps below to turn the speakers on or off in your TV. The chart below explains your options.

1. Select the Setup Menu

Press MENU•PROG repeatedly to select the Setup menu. This menu is white.

2. Highlight speakers

Press MOVE H (down) until Speakers is highlighted.

3. Turn Speakers on or off

Press MOVE E or F to turn the speakers on or off.

Speakers	On	Off
	The sound comes from the TV's internal speakers.	No sound comes from the TV.

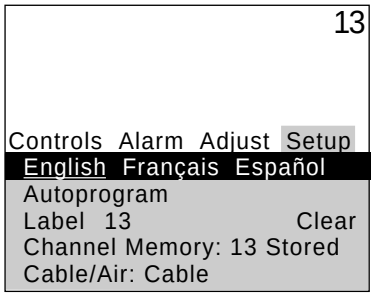
Using Advanced Features

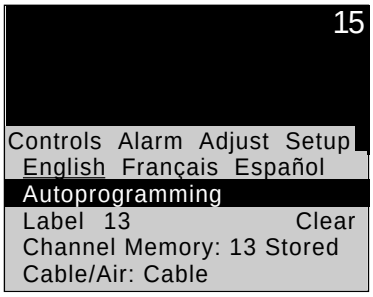
Placing Channels in Memory (Autoprogramming)

Only channels 2–13 appear in the TV's memory when you first turn it on. The channels available in your area must be programmed into the TV's memory when you hook up your TV. Using CHANNEL up or down allows you to scan through these channels.

You may want to add or delete a few channels if some stations have weak signals or were off the air when the TV was programmed. *Refer to the Add or Delete Channels section below.*

1. Place channels in memory (AutoProgram)





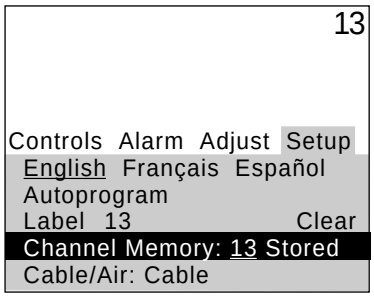
A. Hook up an antenna, cable or components before you begin these steps or you will not be able to add channels into memory.

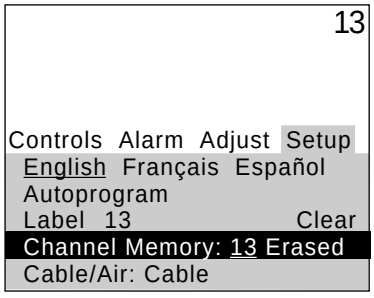
B. Press MENU•PROG repeatedly to select the Setup Menu and highlight Autoprogram. This menu is white.

C. Press MOVE **H** (down) to start the TV adding all active channels into memory.

D. Wait until the TV has cycled through all the channels and returns to the original channel.

2. Add or delete channels





A. Press MENU•PROG repeatedly to select the Setup menu. This menu is white.

B. Press MOVE H (down) to highlight Channel Memory.

C. Press MOVE **E** to underline the channel number.

D. Select the channel number you want to add or delete with the number buttons.

E. Press MOVE **E** to add or delete a channel (you will see Stored on the screen when added and Erased when deleted).

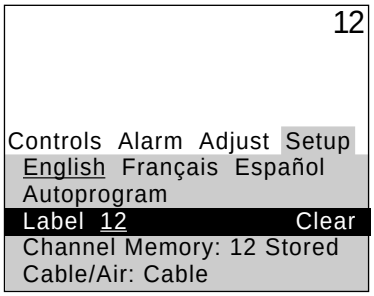
F. Repeat D and E for more channels.

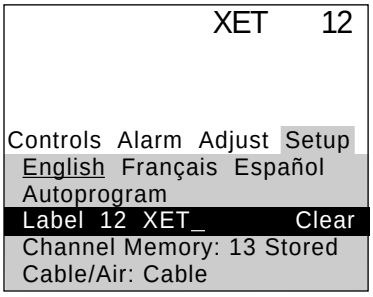
Using Advanced Features

Naming the Channels

You can name the channels using the character list below. **Full** appears beside Label when the memory is used up. **Fixed** appears beside Label for channel 00--it cannot be named.

1. Name a channel





A. Press MENU•PROG repeatedly to select the Setup menu. This menu is white.

B. Press MOVE H (down) to highlight Label.

C. Press MOVE E to underline the channel number.

D. Select the channel number with the number buttons.

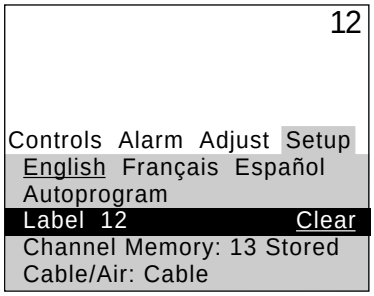
E. Press MOVE E to underline the first character of the name.

F. Choose the character using MOVE G/H (up or down).

G. Repeat E–F to complete the name.

H. Press MOVE F to move backward if you want to change an item.

2. Erase a name



A. Follow A and B above.

B. Press MOVE E until clear is underlined.

C. Press MOVE G/H (up or down) to clear the name.

Character List

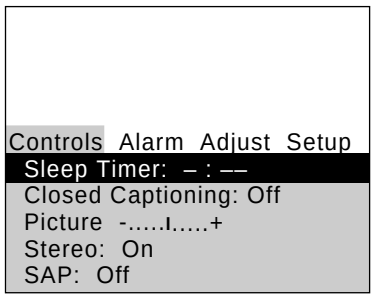
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z &
' ( ) á + , – . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ blank space

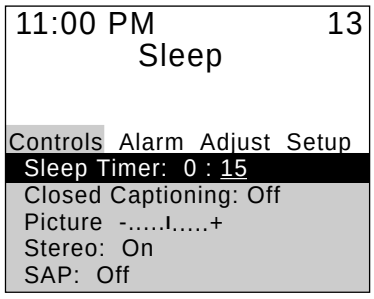
Using Advanced Features

Setting the Sleep Timer

You can set your TV to turn itself off. If you're watching TV at night and fall asleep, the TV will turn off for you.

1. Set Sleep Timer



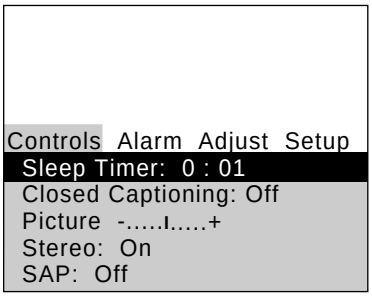


A. Press MENU•PROG to select the Controls menu and highlight Sleep Timer. This menu is yellow.

B. Press MOVE E to enter the amount of time you want to watch TV before it shuts off. Each press equals 15 minutes.

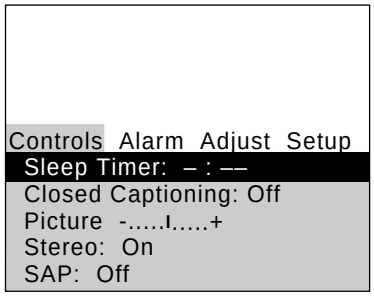
C. Press MOVE F to subtract time from the sleep timer.

2. Add more time



A. When 0:01 appears on the screen, the TV will shut off in one minute. Press MOVE E to add more time.

3. Cancel the Timer



A. Press MENU•PROG to select the Controls menu and highlight Sleep Timer.

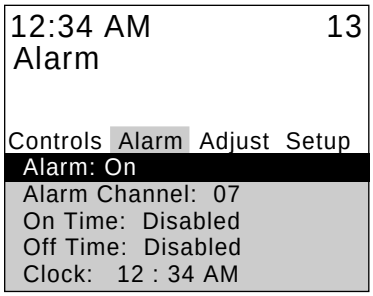
B. Press MOVE F until the time reaches – : – –.

Using Advanced Features

Setting the Alarm Clock

The TV can be set to turn on each day like your alarm clock. You can set it to turn on to your favorite channel at a certain time. You can also set it to turn itself off again. The Alarm cannot be used until the clock is set.

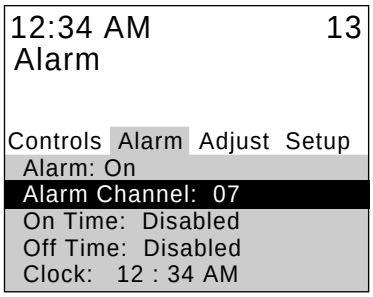
1. Turn on the Alarm



A. Press MENU•PROG to select the Alarm menu and highlight Alarm. This menu is green.

B. Press MOVE E or F to select On or Off.

2. Set the Alarm Channel

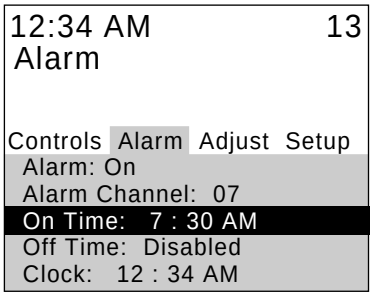


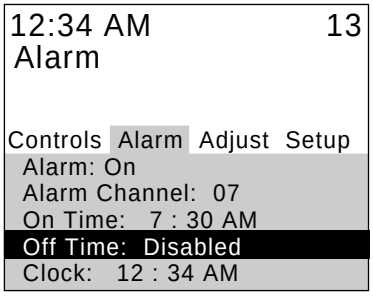
A. Press MOVE H (down) to highlight the Alarm Channel.

B. Press MOVE E to highlight the channel number.

C. Enter the channel that you want the TV to turn on to with the number buttons.

3. Set On and Off Times





A. Press MOVE H (down) to highlight the On or Off Time.

B. Press MOVE F to set the hour.

C. Press MOVE E to set the minutes.

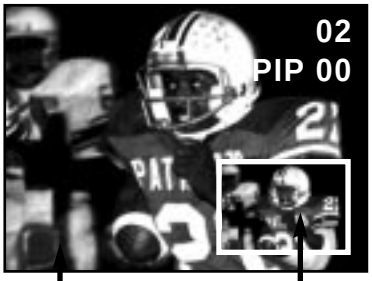
D. Press and hold MOVE F to choose Disabled. This turns the TV only on or only off at a certain time each day.

Using Advanced Features

Watching Picture-in-Picture

Picture-in-Picture allows you to display a small picture within the big picture of the TV screen. To watch two different programs at once, you must connect a VCR, Laserdisc Player or Camcorder. You may need to disable the VCR1 Channel if you can not get two different programs at once.

Turn on Picture-in-Picture



A. Hook up a VCR, Laserdisc Player, or Camcorder to the video jacks on the back of the TV. *See the Connections Guide.*

B. Press TV to turn the TV on.

C. Press CHANNEL up or down to select the channel you want to watch on the big picture.

D. Turn on the VCR, Laserdisc Player, or Camcorder.

E. Press PIP to put the small picture on the screen. It is the same as the big picture.

F. Press 00 to see the signal from the VCR, Laserdisc Player, or Camcorder connected to the video jacks.

Change channels on the large picture

Press CHANNEL up and down or two number buttons to change channels on the large picture.

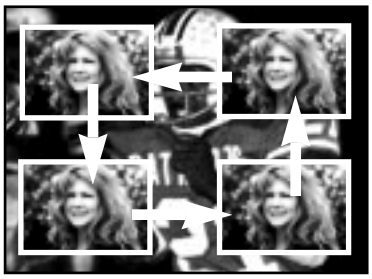
Change channels on the small picture

Change channels on your VCR, Laserdisc Player, or Camcorder to change channels on the small picture.

Using Advanced Features

Watching Picture-in-Picture

Move the small picture



Press PIP MOVE to move the small picture to the next corner.

Swap the big picture with the little picture

Press SWAP to switch the small picture with the big picture.

Freeze the small picture

A. Press FREEZE to stop action in the small picture.

B. Press FREEZE again to return to an action picture.

Turn off Picture-in-Picture

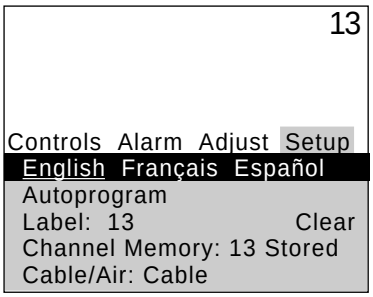
Press PIP to turn off picture-in-picture.

Using Advanced Features

Selecting a Language

The on-screen displays in this TV can be displayed in three languages: English, French, and Spanish. When you select a language, most of the displays will be shown on the screen in your preferred language.

1. Select the Setup menu



Press MENU repeatedly to select the Setup menu. This menu is white.

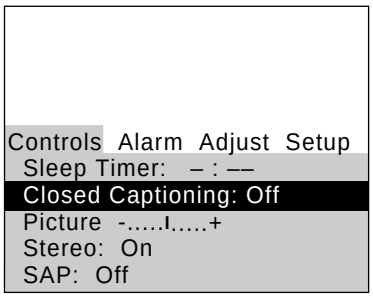
2. Select Language

Press MOVE F or E to select English, Français (French), or Español (Spanish).

Watching Closed Captioning

Closed captioning displays the audio portion of a program as words on the TV screen. It is useful for the deaf, hearing impaired, or anyone who wants to watch a program without sound. If you have turned Closed Captioning on and it does not appear on the screen, it is not available on the channel you are watching. This TV does not support the text mode. Text information typically consists of program information, weather bulletins, local activities, etc.

1. Select the Controls Menu

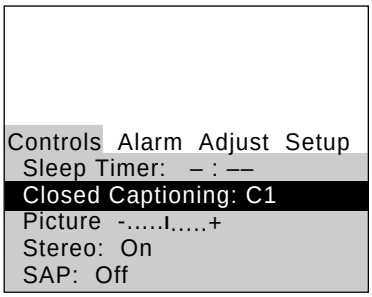


Press MENU•PROG to select the Controls menu. This menu is yellow.

2. Highlight Closed Captioning

Press MOVE H (down) to highlight Closed Captioning.

3. Select Setting



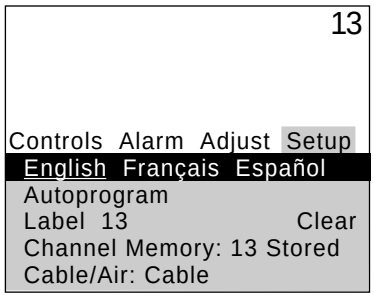
Press MOVE F or E to select Off, C1, or C2. Select C1 for full translation of the primary language in your area. Select C2 for secondary language translation, simplified English, or whatever is being broadcast in your area.

Using Advanced Features

Setting Your TV for Antenna or Cable

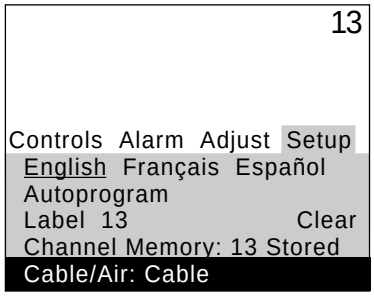
Your TV automatically adjusts this feature when the TV places channels in memory (autoprogram). Follow the steps below to change the setting as needed.

1. Select the Setup menu



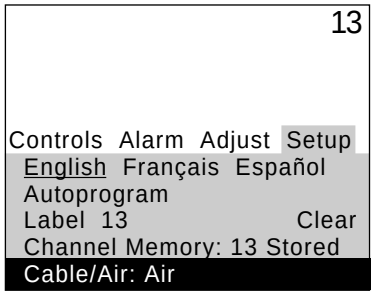
Press MENU•PROG repeatedly to select the Setup menu. This menu is white.

2. Highlight Cable/Air



Press MOVE H (down) to highlight Cable / Air.

3. Select Cable or Air

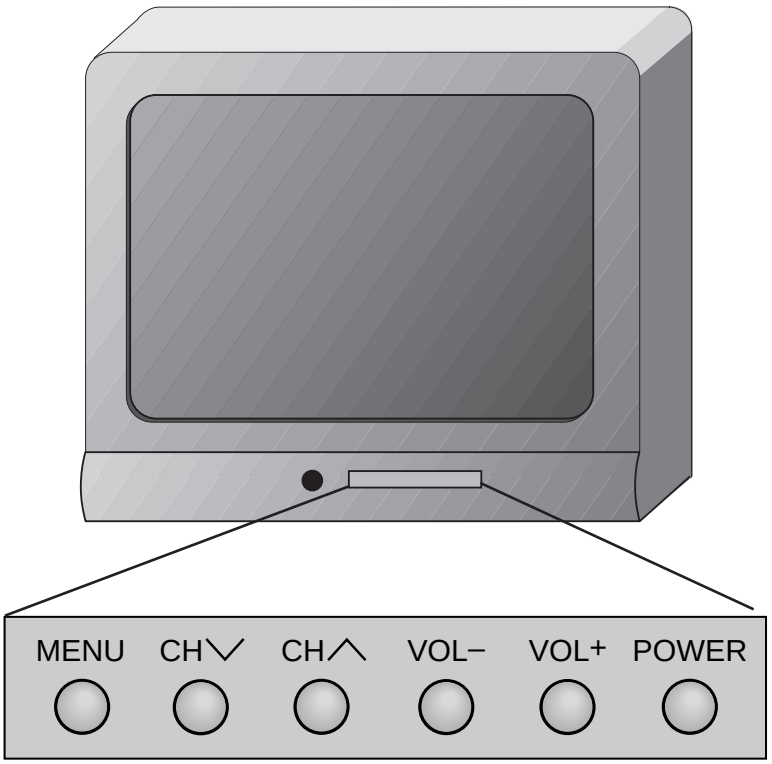


Press MOVE F or E to select Cable or Air. Select Cable if you have cable. Select Air if you have a home antenna connected to your TV.

References

Front Panel Buttons

For details on using buttons with menus, see Menu Basics on page 5.



MENU

Shows menus on screen.

Moves from menu to menu.

CH 2 and 1

Channel up and down.

Scans up and down through channels in the TV's memory.

Moves up and down menus.

VOL + and ─ (Also VOL 2 and VOL 1)

Volume up and down

Raises and lowers sound.

Moves left and right on a menu line.

Changes a features setting.

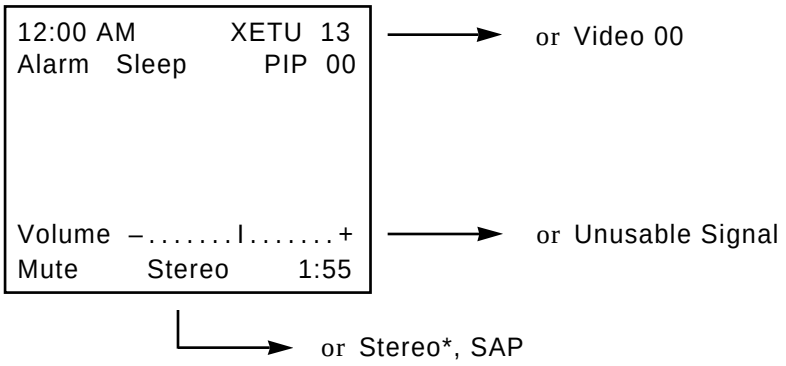
POWER

Turns the TV on or off.

References

Displays on the Screen

Your TV shows the settings of several features on the screen. To see what features have been set on your TV, press DISPLAY on the remote.



Screen Display	Description
12:00 AM	Time of the clock. *Details are on page 3.*
XETU	Name you chose to describe the channel. *Details are on page 21.*
13	Channel number you are watching.
Video 00	Indicates that a component is connected to the VIDEO jack on the back of the TV, it is turned on, and channel 00 is selected.
Alarm	Alarm clock is set to turn on or off. *Details are on page 23.*
Sleep	Sleep Timer is set to turn off the TV. *Details are on page 22.*
PIP 00	Picture-in-picture is turned on to channel 00. *Details are on pages 24-25.*
Volume	Sound level of the TV.
Unusable Signal	No signal is coming in on video input channel 00.
Mute	There is no sound. *See* MUTE *button on page 6.*
Stereo	The sound is being broadcast in stereo. *Details are on page 18.*
Stereo*	SAP is selected in the menu, but it is not available for the program being broadcast. *Details are on page 18.*
SAP	Secondary Audio Program. SAP is selected and it is available for the program being broadcast. *Details are on page 18.*
1:55	The time remaining for commercial skip. *Details are on page 6.*

References

Trouble Checks

You may have problems that can be fixed with a few minor adjustments. Look for the type of problem you are having below and then try the suggestions to get your TV going again.

Trouble	Checks and Adjustments
Power	
TV will not turn on	Plug TV in. Plug something else into the outlet to make sure it is working. Make sure batteries in the remote are not dead. Aim the remote at the TV and press TV. Make sure batteries are placed in the remote the right way. *See batteries on page 2.* Unplug TV for a few minutes and then turn it on again.
No picture, no sound but TV has power	Check antenna connections. Check position of Cable / Air feature. *See page 27.* Try another channel. Inactive channel may be tuned. Make sure component connected to the VIDEO INPUT jacks is turned on if you choose channel 00. Make sure TV is tuned to the same channel as the switch on back of VCR if watching a VCR. Make sure TV / VCR button on VCR is in correct position when using VCR.
Picture	
Blank screen or Unusable Signal appears on screen	Try another channel. Scan the channels.
Picture poor, sound okay	Check antenna connections. Adjust TV picture. *See pages 16–17.*
Picture-in-Picture	
Can't get two different channels in picture-in-picture	Make sure small picture is tuned to channel 00. Make sure the component connected to the back of the TV is turned on. Make sure a video cable is also connected to the TV's VIDEO INPUT jack if using an S-VHS component. Make sure the AUDIO and VIDEO OUT jacks on the VCR, Laserdisc player, or Camcorder are connected to the TV's VIDEO and AUDIO IN jacks. Make sure VCR 1 Channel is set to Disabled. *See page 9.*

References

Trouble Checks

Trouble	Checks and Adjustments
Remote	
Buttons don't work when you press them	Press TV to set the remote to control the TV. *See buttons on page 6-7.*
Works part or none of the time	Clear the path between the remote and TV of any objects. Aim the remote at the component you are trying to control. Press TV so remote will control TV. Make sure batteries in the remote are not dead. See if batteries are placed in remote correctly. *See batteries, page 2.*
Can't select certain channel	Press number buttons. Channel may not be in memory. *See autoprogram on page 20.* Make sure TV / VCR switch on VCR is in the TV position. For numbers over 100, press and hold 1 until 1-- appears, then press the other two numbers. Set Cable / Air feature to Cable for channels higher than 69. *See page 27.*
Sound	
Noisy stereo reception	Turn Stereo off. The stereo broadcast may not be clear. *See page 18.*
Picture okay, no sound	Press VOLUME + or MUTE to restore sound. Make sure TV's speakers are on. *Details are on page 19.*
Picture okay, sound poor	Try another channel. Try adjusting the Tone. *See page 18.* Change Stereo to off. The stereo broadcast may not be clear. *See page 18.*
No stereo on stereo station	Make sure Stereo is turned on. *See page 18.*
TV Turns on or off	
Turns off by itself	Check Sleep Timer. *See sleep timer on page 22.* Wait 30 seconds and turn on again, a power surge may have occured. Check Alarm Off time. *See alarm clock on page 23.*
Turns on by itself	Check Alarm On Time. *See alarm clock on page 23.* Check clock time. *See clock on page 3.*
Does not turn off at Alarm Time	Make sure alarm is turned on or off. *See alarm clock on page 23.* Check clock time. *See clock on page 3.*

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Cleaning Your TV

To clean your TV cabinet, we recommend Murphy's®. You **should not** use cleaners such as Windex® with vinegar, Lenox® Furniture Polish spray or Heinz® Cleaning Vinegar to clean your TV cabinet. Using these cleaners will permanently mar the surface of the cabinet.

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